

Amendments to the Specification:

Please amend the Title of the Invention to read:

**SYSTEM AND METHOD FOR INDICATING THE PRESENCE OR
PHYSICAL LOCATION OF PERSONS OR DEVICES IN A SITE SPECIFIC
REPRESENTATION OF A PHYSICAL ENVIRONMENT**

On page 1, please amend the CROSS-REFERENCE TO RELATED APPLICATIONS paragraph as follows:

This application is a continuation-in-part (CIP) application of U.S. Serial No. 10/386,943 filed March 13, 2003 and claims priority to 60/441,315 filed January 22, 2003. The application is related to U.S. Patent 7,055,107 and US Patent 7,164,883 ~~Serial No. 09/667,689 and U.S. Serial No. 09/954,273~~, and the complete contents of these ~~applications~~ patents are herein incorporated by reference. The invention described is also related to U.S. Patent 6,317,599, U.S. Patent 6,442,507, U.S. Patent 6,493,679, and U.S. Patent 6,499,006 and the complete contents of these patents are herein incorporated by reference.

At page 66, in the text between lines 16-31, please insert a left parenthesis on line 17 prior to the word “or” and on line 17, please replace the word “post -it” with --post-it --.

--Note, however, with the proper power and antenna parameters or settings provided with a cradle or attachment for the reader, (or with a series of repeaters located in close proximity to the actual wireless ~~post-it~~ post-it), the portable reader can be left unattended in the room and connected to an Ethernet or optical backbone, where it then becomes possible to remotely control the reader via remote computer control so that the reader is then able to download contents of specific wireless post-its in the room and send such data throughout the world via Ethernet or Internet means. Clearly, addressing could be done to allow proper control of readers and wireless post-its. The remote access of books would allow someone to retrieve information over the internet, and such retrieval could be done wirelessly via internet connection to the reader in the room, so that someone does not have to lug the book from the bookshelf each time they wish to read information. The adaptive control of such networks that would support this novel wireless post-it concept is one example of potential application of the disclosed invention.--

Please replace the paragraph bridging pages 75-76 with the following:

--As discussed previously, the present invention is capable of representing a two-dimensional (2-D) or three-dimensional (3-D) computerized model of a physical environment. Furthermore, the present invention provides the ability to design and configure a wireless network communication system by determining the type, placement, configuration, and interconnection of network infrastructure within the context of the site-specific model of the physical environment, and further supports the interaction, management, and control of end user devices and network infrastructure within a wireless network. In addition, as the computerized model of the network topology is being generated, the designer can identify a communication path between the graphical icon representing each network device within the computerized site-specific model and the actual physical network device. This identified communication path may take the form of an IP address, media access control (MAC) address, network serial number, phone number, bar code, user name, RF identifier (ID) tag, or some other identifier that both uniquely defines the network device ~~but also~~ and describes or implies a specific means of establishing a communication link with the device. For example, an IP address uniquely describes a network device that may be accessed using an IP protocol via the Internet. --

Please replace the paragraph bridging pages 84-85 with the following:

-- The present invention allows for scripted, automated performance and security checks across the network. By sequentially polling, on a regular, user-controllable basis, each network device to retrieve performance parameters, bandwidth provisioning, user traffic conditions, user priority levels, security settings, and other pertinent network operating parameters, the present invention enables the creation of archived performance data that is correlated to the site-specific location of each network device. This information may be stored, retrieved, and displayed for reporting purposes. For example, the present invention can display the access point or antenna where a specific user was authenticated ~~throughout~~ throughout a monitored time period, or from what locations a particular high priority user initiated phone calls throughout a monitored time period.--

Please replace the paragraph on page 85 between lines 8-24 with the following:

-- By monitoring the activity of network user devices using the above techniques, the present invention can provide a degree of network security that is not possible with other existing technologies. A common security issue with wireless LANs, for example, is known as the man-in-the-middle problem. Referring to Figure 25, a warehouse 2500 is depicted wherein two wireless LAN access points 2501, 2502 are positioned. A network user 2503 is roaming the facility. There is also a rogue access point 2504 that is not part of the valid network infrastructure and represents a security threat to the network. The limits of the service area for access points 2501 and 2502 are indicated by the boundary contour 2505. The boundary contour 2505 represents the maximum distance at which the access points 2501 and 2502 can detect communication signals. Note that the rogue access point 2504 is outside of the boundary 2505. This indicates that neither access point 2501 nor access point 2502 can detect the existence of the rogue access point 2504. However, the network user's device 2503 can detect both the rogue access point 2504 and the valid access points 2501 and 2502. --

Please replace the paragraph bridging pages 85-86 with the following:

-- The present invention, when instructed to monitor the activity of the user's network device 2503, would receive an indication in the form of an alert message from the user's network device 2503 that would be processed, stored, and displayed in a manner similar to Figure 24, notifying the IT manager or network security personnel that an intruder access point or user had been detected. In addition, alarms could be set, pages sent to IT personnel, or alert messages sent, as described in the above patents and patent applications set forth in the cross-reference to related applications section, and are hereby incorporated by reference. If the user's network device 2503 has been instructed by the invention to automatically report any such intrusions by rogue access points or other security problems, the user's device 2503 may automatically send an alert message to the present invention, at which point the alert message is processed, stored, and displayed as described above. Furthermore, using the previously described processing, the invention would take proper corrective action such as decreasing power of the rogue user (if possible), initiating new security procedures for the existing users, shutting down appropriate processes and implementing procedures to avoid a security breach, and to shut down the resource allocation of the ~~rouge~~ rogue user in the network, reporting the rogue user to a clearing house or storage facility to help police proper usage, etc. Without this degree of site-specific monitoring and control, the network administrator would have no method of automatically detecting the existence of the rogue access point 2504. --

Please replace the text on page 89, between lines 17-24 with the following:

-- It should be clear to one skilled in the art that although Figures 23 - 28 depict tooltips being used to convey information in the present invention, any other form of information display or feedback could also be displayed, such as graphs, charts, images, video, audio, or any other type of aural or visual media could be used. It should also be clear that although particular network devices were identified in Figures 23 - 28, ~~that~~ any network hardware device or network client device, whether mobile or fixed, could also be the network device in question.--

Please replace the paragraph on page 97, between lines 4-28 with the following:

-- Referring to Figure 32, there is shown a typical wireless network installed within a warehouse facility. Although a warehouse 3200 is used in this example, any physical environment such as a room, building floor, building, campus of buildings, city, or any outdoor environ could be represented within the present invention. A single floor of a warehouse facility is shown for simplicity. Within the warehouse 3200 are multiple shelves 3201 on which a variety of stock items may be placed. A wireless network is installed within the warehouse whose antennas 3202 are positioned at various places within and around the warehouse. Note that the antennas 3202 could represent any form of omnidirectional, directional, array, or radiating cable antennas, transceivers or base stations with co-located antennas, or some form of self-contained transceiver or base station unit with a built-in antenna. In addition, the wireless network antennas 3202 may be omnidirectional, directional, or array antennas attached via a distribution cable of some type, whether coaxial, baseband, or fiber optic cable, to a transceiver physically located elsewhere. However, the wireless network antennas 3202 may take the form of self-contained repeater devices, which receive wireless communication signals and rebroadcast the same, modified, or modulated wireless signal. In addition, the wireless network antennas 3202 may be mobile; for example, the wireless network antennas 3202 may be self-contained transceivers attached to a moving vehicle, conveyor belt, or even embedded within a handheld device. Note that the wireless network antennas 3202 may take the form of self-contained transceivers, where the antenna is co-located with and inseparable from the transceiver itself. --

Please replace the paragraph on page 98, between lines 1-16 with the following:

-- In addition, numerous wireless hardware devices 3203 are positioned throughout the facility, and may be fixed in place (e.g., attached to a shelf, wall, immobile equipment, or other non-moving structure) or mobile (e.g., attached to a stock item, palette, moving vehicle, moving part of a machine or assembly line such as a conveyer belt, incorporated into a handheld device being used by stock, maintenance, or security personnel, incorporated into an identification badge worn by employees, or any other type of mobile or non-tethered platform). The wireless hardware devices 3203 may take the form of either passive or active radio frequency tags (RF tags), ultra-wideband (UWB) transceivers, Bluetooth transceivers, wireless local area network (WLAN) devices, cellular or personal communication system (PCS) transceivers, or other similar wireless networking technology. In the case of RF tags, a passive RF tag is differentiated from an active RF tag as follows. A passive RF tag does not actively originate and transmit wireless signals, whereas an active RF tag ~~contains~~ may actively originate and transmit signals. --

Please replace the paragraph on page 104, between lines 25-30 with the following:

-- This embodiment of the present invention is particularly useful in the situation described above if an emergency is occurring within the building. If an emergency is detected in the building, given the instantiation of the present invention shown in Figure 35 each piece of wireless network equipment 3202 can independently furnish a fire exit map or other instructions to wireless network devices 3203. --

Please replace the paragraph bridging pages 104- 105, with the following:

-- Finally, Figure 36 presents a third type of embodiment of the present invention. Figure 36 represents a combination of the embodiments presented in Figures 33 and 35. In Figure 36, each piece of wireless network hardware equipment 3202 ~~contain their~~ contains its own version of the invention, a site-specific information and management system, while a separate computer platform 3303 that can connect with each separate piece of wireless network equipment 3202 also has an instantiation of the invention. --